

Amendments to the Claims:

The following listing of claims will replace all prior versions and listings of claims in the application:

Listing of the claims:

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**Claim 1 (currently amended):** An electrical brush holder for applying a mechanical force to an electrical fiber or foil brush and for establishing electrical contact between the electrical brush sliding against a substrate, and a current conducting element, comprising:

a first wall fastened to the current conducting element;

a second wall releasably fastened to the brush;

a sidewall lengthwise extendable in an axis direction of the brush and cooperating with the first and second walls to form a volume defined by the first wall, the second wall and the sidewall, ~~and a fluidic medium contained in the volume and~~ wherein said brush holder is configured to apply an approximately constant pressure to the brush; and

a flexible cable composed of a plurality of ultra-fine metal fibers configured to conduct current between the current conducting element and the brush.

**Claim 2 (currently amended):** The electrical brush holder according to Claim 1, wherein further comprising a fluidic medium contained in the volume, said fluidic medium ~~comprises~~ comprising at least one of a liquid metal and a pressurized gas.

**Claim 3 (currently amended):** The electrical brush holder according to Claim 2, wherein said fluidic medium comprises a gas and a liquid metal in pressure-transmitting contact with each other via at least one flexible membrane.

**Claim 4 (original):** The electrical brush holder according to Claim 3, wherein said pressurized gas is pressurized from a source external to the volume.

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**Claim 5 (original):** The electrical brush holder according to Claim 3, wherein said pressurized gas is entirely confined within the volume.

**Claim 6 (previously amended):** The electrical brush holder according to Claim 1 wherein the flexible cable is at least partly located outside of the volume.

**Claim 7 (previously amended):** The electrical brush holder according to Claim 6, wherein the flexible cable is completely located inside the volume.

**Claim 8 (original):** The electrical brush holder according to Claim 7, wherein said plurality of metal filaments comprise a diameter of less than 51  $\mu\text{m}$ .

**Claim 9 (original):** The electrical brush holder according to Claim 7, wherein said plurality of metal filaments each have a diameter of less than 41  $\mu\text{m}$ .

**Claim 10 (original):** The electrical brush holder according to Claim 7, wherein said plurality of metal filaments each have a diameter of less than 11  $\mu\text{m}$ .

**Claim 11 (original):** The electrical brush holder according to Claim 7, wherein said electrical cable comprises a volume of liquid metal confined in a flexible tubing.

**Claim 12 (original):** The electrical brush holder according to Claim 1, wherein the first plate is fastened to the current conducting element via at least one of 1) a screw, 2) a dove-tail, 3) solder, 4) cement, 5) glue, 6) a magnetic force, 7) a suction cup, and 8) a bayonet closure.

**Claim 13 (original):** The electrical brush holder according to Claim 1, wherein at least part of the sidewall comprises at least one of 1) spiral tubing, 2) telescoping tubing, 3) accordion pleated bellows, and 4) flexible plastic sheet material.

**Claim 14 (currently amended):** The electrical brush holder according to Claim 1, further comprising: support rods configured to support at least part of the sidewall.

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**Claim 15 (original):** The electrical brush holder according to Claim 1, wherein the second plate comprises a wedge-shape in accordance with an intended axis direction of the brush.

**Claim 16 (original):** The electrical brush holder according to Claim 1, wherein the first plate is angled relative to the sidewall.

**Claim 17 (original):** The electrical brush holder according to Claim 1, further comprising:

rigid tubing surrounding the sidewall and configured to guide the second plate in the axis direction of the brush.

**Claim 18 (original):** The electrical brush holder according to Claim 1, further comprising:

a spring disposed between said first and second plates and configured to apply a mechanical force to the brush.

**Claim 19 (original):** The electrical brush holder according to Claim 7, wherein the cable comprises electrical connectors configured to connect the cable to an electrical device.

**Claim 20 (original):** The electrical brush holder according to Claim 1, wherein the brush is permanently fastened to the second plate.

**Claim 21 (previously amended):** The electrical brush holder according to Claim 1, wherein the brush is releasably fastened to the second wall via at least one of 1) a screw, 2) a dove-tail, 3) solder, 4) cement, 5) glue, 6) a magnetic force, 7) a suction cup, and 8) a bayonet closure.

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**Claim 22 (currently amended):** The electrical brush holder according to Claim 1, wherein the fluidic medium comprises a pressurized gas contained in a plurality of flexible membranes surrounded by a liquid metal.

**Claim 23 (currently amended):** The electrical brush holder according to Claim 1, wherein the fluidic medium comprises a pressurized gas contained in a donut-shaped flexible membrane surrounded by a liquid metal.

**Claim 24 (currently amended):** The electrical brush holder according to Claim 1, wherein the fluidic medium comprises a pressurized gas contained in a single flexible membrane surrounded by a liquid metal.

**Claim 25 (original):** The electrical brush holder according to Claim 1, further comprising:

at least a third plate fastened to at least another brush.

**Claim 26 (original):** A flexible cable according to Claim 1, wherein said plurality of metal filaments comprise a diameter of less than 51  $\mu\text{m}$ .

**Claim 27 (previously amended):** An electrical brush holder for applying a mechanical force to an electrical brush, comprising:

a chamber defining a volume and having a moveable wall to which the brush is releasably fastened; and

a fluidic medium contained in the volume and configured to apply a pressure to the brush via the moveable wall.

**Claim 28 (original):** A flexible cable according to Claim 1, wherein said plurality of metal filaments each have a diameter of less than 11  $\mu\text{m}$ .

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**Claim 29 (previously added):** A flexible cable according to Claim 1, wherein said plurality of metal filaments comprise a diameter of less than 51  $\mu\text{m}$ .

**Claim 30 (previously added):** A flexible cable according to Claim 1, wherein said plurality of metal filaments comprise a diameter of less than 41  $\mu\text{m}$ .

**Claim 31 (previously added):** A flexible cable according to Claim 1, wherein said plurality of metal filaments comprise a diameter of less than 11  $\mu\text{m}$ .

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